

this permit originally issued to Emery Energy, now owned by Town Oil Co.

Missouri Oil and Gas Council

Form OGC-3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

APPLICATION TO DRILL ☒

DEEPEN ☐

PLUG BACK ☐

for an oil well ☒

or gas well ☐

NAME OF COMPANY OR OPERATOR Town Oil Co.

DATE 12/6/85

Route 4

Paola

KS 66071

Address

City

State

DESCRIPTION OF WELL AND LEASE

Name of lease

Asjes

Well number

E-4

Elevation (ground)

1084

WELL LOCATION

(give footage from section lines)

812 ft. from (N) ☒ sec. line

882 ft from (E) ☒ sec. line

WELL LOCATION

Section 4

Township 46N

Range 33W

County

CASS

Nearest distance from proposed location to property or lease line:

165 feet

Distance from proposed location to nearest drilling, completed or applied for well on the same lease:

260 feet

Proposed depth

680

Drilling contractor, name & address

☒ Rotary or Cable Tools

Approx. date work will start

see note

Number of acres in lease

100

Number of wells on lease, including this well, completed in or drilling to this reservoir:

Number of abandoned wells on lease:

If lease, purchased with one or more wells drilled, from whom purchased:

Name _____

Address _____

No. of Wells:

producing _____

injection _____

inactive _____

abandoned _____

Status of Bond

Single Well ☐ Amt. _____

Blanket Bond ☒ Amt. 20,000

☒ ON FILE
☐ ATTACHED

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone) use back of form if needed.

Proposed casing program:

amt.	size	wt /ft.	cem.
<u>20'</u>	<u>7"</u>	<u>30#</u>	<u>yes</u>
<u>660'</u>	<u>2-3/8</u>	<u>4.5</u>	<u>yes</u>
_____	_____	_____	_____
_____	_____	_____	_____

Approved casing -- To be filled in by State Geologist

amt	size	wt /ft	cem.
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
_____	_____	_____	_____
_____	_____	_____	_____

I, the undersigned, state that I am the Partner of the Town Oil (company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature

Luther Town

Permit Number: 20234

Approval Date: 12/6/85

Approved By: Wallace B. Hove

Note. This Permit not transferable to any other person or to any other location.

Remit two copies to: Missouri Oil and Gas Council
P.O. Box 250 Rolla, Mo. 65401

One will be returned for driller's signature

☒ Drillers log required

☒ E-logs required if run

☒ Core analysis required if run

☒ Drill stem test info. required if run

☐ Samples required

☒ Samples not required

DEC 16 1985

WATER SAMPLES REQUIRED @

MO. OIL & GAS COUNCIL

Approval of this permit by the Oil and Gas Council does not constitute endorsement of the geologic merits of the proposed well nor endorsement of the qualifications of the permittee.

3/12/82

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL ☒ DEEPEN ☐ PLUG BACK ☐NAME OF COMPANY OR OPERATOR Emery Energy, Inc. DATE 11-12-81R R 1 Box 390 Osawatomie, Kansas 66064
Address City State

DESCRIPTION OF WELL AND LEASE			
Name of lease <u>Asjes</u>	Well number <u>E - 4</u>	Elevation (ground) <u>1084</u>	
WELL LOCATION (give footage from section (lines) <u>812'</u> from N. sec. line <u>882</u> ft. from E. sec. line			
WELL LOCATION Section <u>4</u> Township <u>46N</u> Range <u>33W</u>			County <u>Cass</u>
Nearest distance from proposed location to property or lease line: <u>165'</u> feet		Distance from proposed location to nearest drilling, completed or applied — for well on the same lease: <u>260'</u> feet	
Proposed depth. <u>680'</u>	Rotary or Cable tools	Approx. date work will start	
Number of acres in lease: <u>110</u>	Number of wells on lease, including this well, completed in or drilling to this reservoir: <u>18</u> Number of abandoned wells on lease: <u>0</u>		
If lease, purchased with one or more wells drilled, from whom purchased: Name <u>McGown Drilling</u> Address <u>Mound City, Kansas</u>		No. of Wells: producing <u>7</u> inactive <u>1</u> abandoned <u>0</u>	
Status of Bond Single Well <input type="checkbox"/> Amt. _____ Blanket Bond <input type="checkbox"/> Amt. <u>20,000</u> <input checked="" type="checkbox"/> ON FILE <input type="checkbox"/> ATTACHED			
Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone) use back of form if needed.			
Proposed casing program:		Approved casing — To be filled in by State Geologist	
amt. <u>20</u>	size <u>7"</u>	wt./ft. <u>30#</u>	cem. <u>yes</u>
<u>660'</u>	<u>2-3/8</u>	<u>4.5</u>	<u>yes</u>
I, the undersigned, state that I am the <u>Vice-President</u> of the <u>Emery Energy, Inc</u> (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.			
Signature <u>Devon M. Hurst</u>			

Permit Number: 20234Approval Date: 11/24/81Approved By: Wallace B. Love
11/25

Note: This Permit not transferable to any other person or to any other location.

Remit two copies to: Missouri Oil and Gas Council
P.O. Box 250 Rolla, Mo. 65401
One will be returned for driller's signature☐ SAMPLES REQUIRED☒ SAMPLES NOT REQUIREDWATER SAMPLES REQUIRED ☐

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Form OGC-5

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

New Well ☒ Work-Over ☐ Deepen ☐ Plug Back ☐ Same Reservoir ☐ Different Reservoir ☐ Oil ☒ Gas ☐ Dry ☐

Owner Emery Energy		Address RR1 Box 390 Osawatomie, KS	
Lease Name Asjes		Well Number E-4	
Location 812' FNSL + 882' FESL		Sec. -- TWP-Range or Block & Survey 4 46N 33W	
County Cass	Permit number (OGCJ number) 20234		
Date spudded 11-24-81	Date total depth reached 11-25-81	Date completed, ready to produce 11-28-81	Elevation (DF, RKB, RT or Gr.) 1084 feet
Total depth 629.0'	P. B. T. D. 623.5'	Elevation of casing hd. flange same as surface	
Producing interval(s) for this completion 590 to 612		Rotary tools used (interval) From 8 to TD Drilling Fluid used water & air	Cable tools used (interval) From none to
Was this well directionally drilled? NO	Was directional survey made? NO	Was copy of directional survey filed? NO	Date filed
Type of electrical or other logs run (list logs filed with the State Geologist) Gamma Ray/Neutron/CCL			Date filed

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)

Purpose	Size hole drilled	Size casing set	Weight (lb/ft)	Depth set	Sacks cement	Amt pulled
Surface	9 1/2"	6 1/4"		20'		
Production	5 1/4"	2"		640'	85 + 3 gal	

TUBING RECORD

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
1 in.	602.4 ft.	585' ft.	- in.	N/A ft.	N/A ft.	N/A	N/A

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval
	1 1/2 glass	590-591-592-605	Water Gel - 3	clay - stab - 10
		606-608-609-610-	sand - 20-40 - 10	salt - 1
		611- & 612	sand - 10-20 - 10	

INITIAL PRODUCTION

Date of first production 1-18-82		Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump): #7 Churchill Pumping - see monthly production report					
Date of test None	Hrs. tested NA	Choke size NA	Oil prod. during test NA bbls.	Gas prod. during test NA MCF	Water prod. during test NA bbls.	Oil gravity 26 API (Corr.)	
Tubing pressure 0	Casing pressure 0	Cal't rate of Production per 24 hrs.	Oil 2 bbls.	Gas 1001 MCF	Water 10 bbls.	Gas-oil ratio 0	

Disposition of gas (state whether vented, used for fuel or sold): **Used for fuel**Method of disposal of mud pit contents: **Hauled away**

CERTIFICATE: I, the undersigned, state that I am the **Vice-President** of the **Emery Energy Inc.** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

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Signature

Donna M. Hurst

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0-10	soil
10-51	lime
51-78	shale
78-104	lime
104-120	shale
120-124	carb. shale
124-176	shale
176-207	lime
207-211	carb. shale
211-235	lime
235-238	carb. shale
238-248	lime (hertha)
248-251	shale
251-258	lime
258-280	shale
280-312	sandy shale
312-346	shale
346-365	sand
365-368	shale
368-370	shale
370-398	sand
398-410	shale
410-415	lime
415-426	shale
426-433	lime
433-437	carb. shale
437-442	lime
442-446	carb. shale
446-454	lime
454-459	shale
459-469	sand
469-479	shale
479-484	lime
484-488	carb. shale
488-498	sand
498-586	shale
586-593	sand
593-603	shale
603-618	sand
618-660	shale TD